

IN THE CLAIMS

Please amend the claims as follows:

1-28. (cancelled)

29. (previously presented) A method for fabricating an article using photo-activatable building material, the method comprising:

depositing a uniform layer of the photo-activatable building material to a preselected surface with an applicator;

scanning the layer using a plurality of light-emitting centers to selectively photo-activate the layer of photo-activatable building material in accordance with fabrication of said article;

repeating the steps of depositing a uniform layer, with each layer being applied over an immediately previous layer, and scanning each layer with the plurality of light-emitting centers to selectively photo-activate the building material until the article is fabricated;

curing the article in a curing oven following fabrication; and

automatically transporting the article between said applicator and said curing oven with a transport system;

wherein scanning is accomplished using a modified printing cartridge that includes light directing devices located in an orifice plate.

30. (previously presented) The method of claim 29, wherein the light directing devices include lenses at nozzle locations and wherein the lenses are set at predetermined distances from the light-emitting centers.

31-34. (cancelled)

35. (previously presented) A method for fabricating an article using photo-activatable building material, the method comprising:

depositing a uniform layer of the photo-activatable building material to a preselected surface with an applicator;

scanning the layer using a plurality of light-emitting centers to selectively photo-activate the layer of photo-activatable building material in accordance with fabrication of said article; and

repeating the steps of depositing a uniform layer, with each layer being applied over an immediately previous layer, and scanning each layer with the plurality of light-emitting centers to selectively photo-activate the building material until the article is fabricated;

wherein said plurality of light-emitting centers are disposed in a modified inkjet print cartridge which is separate from said applicator, wherein said modified inkjet print cartridge is modified to contain said light-emitting centers, said light-emitting centers being formed at or in place of firing resistors of said print cartridge.

36. (previously presented) A method for fabricating an article using photo-activatable building material, the method comprising:

depositing a uniform layer of the photo-activatable building material to a preselected surface with an applicator;

scanning the layer using a plurality of light-emitting centers to selectively photo-activate the layer of photo-activatable building material in accordance with fabrication of said article; and

repeating the steps of depositing a uniform layer, with each layer being applied over an immediately previous layer, and scanning each layer with the plurality of light-emitting centers to selectively photo-activate the building material until the article is fabricated;

wherein said plurality of light-emitting centers are disposed in a modified inkjet print cartridge which is separate from said applicator; and

wherein said light-emitting centers are formed at or in place of firing resistors of said print cartridge, said light emitting centers are driven by circuitry for driving said firing resistors and light directing devices being disposed in an orifice plate of said print cartridge in correspondence with said light emitting centers.

37. (previously presented) The method of claim 35, wherein the light-emitting centers comprise light-emitting diodes.

38. (previously presented) The method of claim 35, wherein the light-emitting centers comprise laser diodes.

39. (previously presented) The method of claim 35, further comprising light directing devices being disposed in orifices of an orifice plate of said print cartridge, wherein the light directing devices comprises lenses.

40. (previously presented) The method of claim 35, further comprising light directing devices being disposed in orifices of an orifice plate of said print cartridge, wherein the light directing devices comprises baffles.

41. (previously presented) The method of claim 35, wherein depositing a layer of the photo-activatable building material is accomplished by one of: silk-screening, spraying, or spinning the building material in a manner that deposits a uniform layer of the building material onto the preselected surface.

42. (previously presented) The method of claim 35, further including rinsing non-polymerized material off the article with a rinsing unit.

43. (previously presented) The method of claim 42, further comprising automatically transporting said article to said rinsing unit with a transport system.

44. (previously presented) The method of claim 35, further including curing the article with a curing oven.

45. (previously presented) The method of claim 44, further comprising automatically transporting said article to said curing oven with a transport system.

46-47. (cancelled)

48. (previously presented) The method of claim 36, wherein the light-emitting centers comprise light-emitting diodes.

49. (previously presented) The method of claim 36, wherein the light-emitting centers comprise laser diodes.

50. (previously presented) The method of claim 36, wherein the light directing devices comprises lenses.

51. (previously presented) The method of claim 36, wherein the light directing devices comprises baffles.

52. (previously presented) The method of claim 36, wherein depositing a layer of the photo-activatable building material is accomplished by one of: silk-screening, spraying, or spinning the building material in a manner that deposits a uniform layer of the building material onto the preselected surface.

53. (previously presented) The method of claim 36, further including rinsing non-polymerized material off the article with a rinsing unit.

54. (previously presented) The method of claim 53, further comprising automatically transporting said article to said rinsing unit with a transport system.

55. (previously presented) The method of claim 36, further including curing the article with a curing oven.

56. (previously presented) The method of claim 55, further comprising automatically transporting said article to said curing oven with a transport system.